

PIRI-SUPPORTED PROJECTS AND RESOURCES
Partnership in RBCA Implementation (PIRI)

Project Title	Description	PIRI Source/Contacts
NATIONAL RBCA SUPPORT		
RBCA Training Initiative	Risk-Based Corrective Action (RBCA) training and policy development underway in 47 states.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBDM Locator	Nationwide quick-reference file identifying state contacts for information on Risk-Based Decision Making (RBDM) policies, procedures, and guidance materials.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBDM Communications Training	Hands-on training on risk communication methods provided to several agencies.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBCA Policy Database	Web-page summarizing state RBCA program policies for 32 states (www.gsi-net.com/RBCAPOL)	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBCA Fate and Transport Modeling Compendium	Practical guidelines for fate-and-transport modeling under RBCA, including model selection, parameter estimation, and uncertainty analysis.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBDM Performance Measures	Practical guidelines for state agencies to track benefits of their RBDM programs in terms of improved risk reduction, decreased backlog, and reduced site remediation/closure costs.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov
RBDM for Leaking USTS in Indian Lands	Guidance manual for step-by-step application of RBDM process at UST sites on Indian lands.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov

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NATIONAL RBCA SUPPORT		
RBCA Policy/Strategy Issues Workbook	Instructional guide for identifying and addressing key policy issues and tasks for RBCA program implementation.	Mark Malander, Exxon/Mobil Oil Corp. 703.849.3429 mark.w.malander@exxon.mobil.com

RBCA Comparative Evaluation	Comparative evaluation of RBCA policy choices in several states.	Mark Malander, Exxon/Mobil Oil Corp. 703.849.3429 mark.w.malander@exxon.mobil.com
Regulatory Overlays	Evaluation state regulations to identify specific regulations which are or are not compatible with the RBDM process. Overlays completed for CT, DC, DE, IL, NJ, PA, TX, VA, and WV.	Mark Malander, Exxon/Mobil Oil Corp. 703.849.3429 mark.w.malander@exxon.mobil.com
Soil Screening Guide	Guidance document on appropriate modeling/calculation procedures for derivation of site-specific soil-to-groundwater protection standards.	Holly Saffold 908.474.2614 holly.m.saffold@exxon.sprint.com
STATE RBCA PROGRAM SUPPORT		
Alabama Guidance Document	Development of guidance document for state-specific RBCA process. Software for RBCA reports and calculating site-specific target levels.	Phil Bartholomae, BP Amoco 770.641.2453 BARTHOPG@bp.com Dorothy Malaier 334.270.5613 dsm@adem.state.al.us
Alaska Guidance Document	Development of guidance document for state-specific RBCA process.	Steve Bainbridge, AK Dept. of Env. Conserv 907.451.2360 sbainbri@envirocon.state.ak.us
Florida Natural Attenuation Tool Kit	Modeling tool for evaluating effectiveness of natural attenuation remedies of petroleum cleanup sites.	Tom Conrardy, Florida Dept. of Env. Protec 850.498.3935 conrardy_t@dep.state.fl.us

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STATE RBCA PROGRAM SUPPORT		
Florida RBCA Policy Study	Evaluation of LUST site closure rates and funding costs under various policy scenarios, based on detailed analyses of 120 actual sites.	Geoff Gilman, BP Amoco 630.836.5697 ggilman@amoco.com
Idaho Guidance Document	Development of guidance document for state-specific RBCA process. Software for calculating site-specific target levels.	Mark Malander, ExxonMobil Oil Corp. 703.849.3429 mark.w.malander@exxonmobil.com Bruce Wicherski 208.373.0246 bwichers@deq.state.id.us
Iowa RBCA Cost Study	Evaluation of potential cost savings generated by Iowa RBCA program based on detailed analysis of over 100 actual LUST sites.	Geoff Gilman, BP Amoco 630.836.5697 ggilman@amoco.com
Kansas Guidance Document	Development of guidance document for state-specific RBCA process. Software for RBCA reports and calculating site-specific target levels.	Rick Mattick, U.S. EPA OUST 703.603.7154 mattick.richard@epa.gov Gary Blackburn 913.298.1678 gblackburn@kdhe.state.ks.us
Michigan RBCA Software	Customization of GSI RBCA Tool Kit software for application of Michigan-specific procedures. Joint training program for Michigan DNR staff and stakeholders.	Roger Przybysz, Michigan DEQ, STD 616.356.0226 przybysr@state.mi.us

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STATE RBCA PROGRAM SUPPORT		
Nebraska Tier 1 Software	Development of Tier 1 software for Nebraska RBCA program.	Geoff Gilman, BP Amoco 630.836.5697 ggilman@amoco.com David Chambers 402.471.4230 deq083@mail.deq.state.ne.us
New Mexico Guidance Document	Development of guidance document for state-specific RBCA process.	Karen Synowiec, Chevron Products Co. 510.242.5687 kasy@chevron.com Anna Richards 505.827.0188 anna_richards@nmenv.state.nm.us
Oklahoma Guidance Document	Development of guidance document for state-specific RBCA process. Software for RBCA reports and calculating site-specific target levels.	Karen Lyons, Equilon Enterprises LLC 281.544.6862 kalyons@shellus.com Neil Garrett 405.522.5266 n.garret@ocemail.occ.state.ok.us
Aquifer Yield Estimation Guidelines, Texas Risk Reduction Program	Practical procedures for estimation of maximum well yield for use in aquifer classification. Employs readily-available site parameters in place of costly well yield rests.	Chet Clarke, Texas Natural Resource Conservation Commission 512.239.2268 cclark@tnrcc.state.tx.us
Conceptual Guide to Texas Risk Reduction Program	Technical support for development of guidance document to new risk-based regulatory program covering all program areas.	Chet Clarke, Texas Natural Resource Conservation Commission 512.239.2218 cclark@tnrcc.state.tx.us

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STATE RBCA PROGRAM SUPPORT		
Soil Attenuation Model (SAM), Texas Risk Reduction Program	Enhancement of example ASTM soil-to-groundwater leachate model to account for depth to groundwater and provide simple method for estimation of net rainfall infiltration.	Chet Clarke, Texas Natural Resource Conservation Commission 512.239.2268

		cclark@tnrcc.state.tx.us
Utah Risk-Based Corrective Action Guide	Technical support for development of step-by-step guidance document for state-specific RBCA process.	Geoff Gilman, BP Amoco 630.836.5697 ggilman@amoco.com Paul Zahn, Utah DEQ 801.536.4100 pzahn@deq.state.ut.us
Wisconsin RBCA Implementation Study	Detailed comparison of Wisconsin corrective action rules to ASTM RBCA process in terms of risk management performance and costs.	Mark Malander, Exxon/Mobil Oil Corp. 703.849.3429 mark.w.malander@exxon.mobil.com